

Appl. No. 10/574,152
Amdt. Dated March 16, 2009
Reply to Office action of September 16, 2008

REMARKS

Applicants have modified claims of 11-12 to eliminate the claim language which the Examiner has found to be objectionable. Accordingly, in light of these claim modifications, Applicants request that the Examiner withdraw the objections to claims 11-12.

Applicants have submitted this Request for Continued Examination so that the Examiner may consider the alternate claims as modified herein. More specifically, by this amendment, Applicants have modified each of the independent claims to specifically require that: none of the liquid chambers in the line print head has a pressure generating element that receives a current having a current value difference that is greater than 10 % from the corresponding reference current during a printing operation.

As noted in the specification, one of the key features of the present invention is that Applicants have discovered an optimal relative current differential for maximizing an altered ink emission angle while also decreasing unnecessary current usage. Applicants have demonstrated in the instant specification that when the current differential exceeds greater than a 10% difference, there is very little additional effect on altering the ink emission angle. Accordingly, energy that is applied to the ink ejecting elements with a current difference that is greater than 10% is simply wasted. Applicants have discovered this unique advance in the art which enables a highly efficient printing apparatus to utilize altered ink ejection angles without wasting unnecessary electrical current. Figure 17 illustrates the diminished effect that occurs as a result of providing a greater current differential.

Applicants' respectfully request reconsideration of the prior art rejections set forth by the Examiner under 35 U.S.C. sections 102 and 103. Applicants respectfully submit that the prior

Appl. No. 10/574,152
Amdt. Dated March 16, 2009
Reply to Office action of September 16, 2008

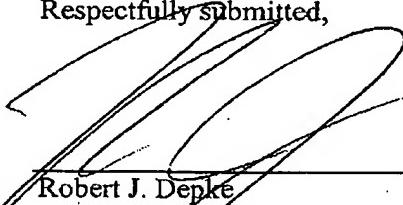
references of record, whether considered alone, or in combination, fail to either teach or suggest this advance in the art.

In light of the foregoing, Applicants respectfully submit that all claims now stand in condition for allowance.

In the event that it is deemed necessary, the Commissioner is hereby authorized to charge any fees due or to credit any overpayment to Deposit Account No. 50-3891.

Date: 3/16/09

Respectfully submitted,

 (Reg. #37,607)

Robert J. Depke
ROCKEY, DEPKE & LYONS, LLC
Sears Tower, Suite 5450
Chicago, Illinois 60606-6306
Tel: (312) 277-2006
Attorneys for Applicant